

Figure 1A.

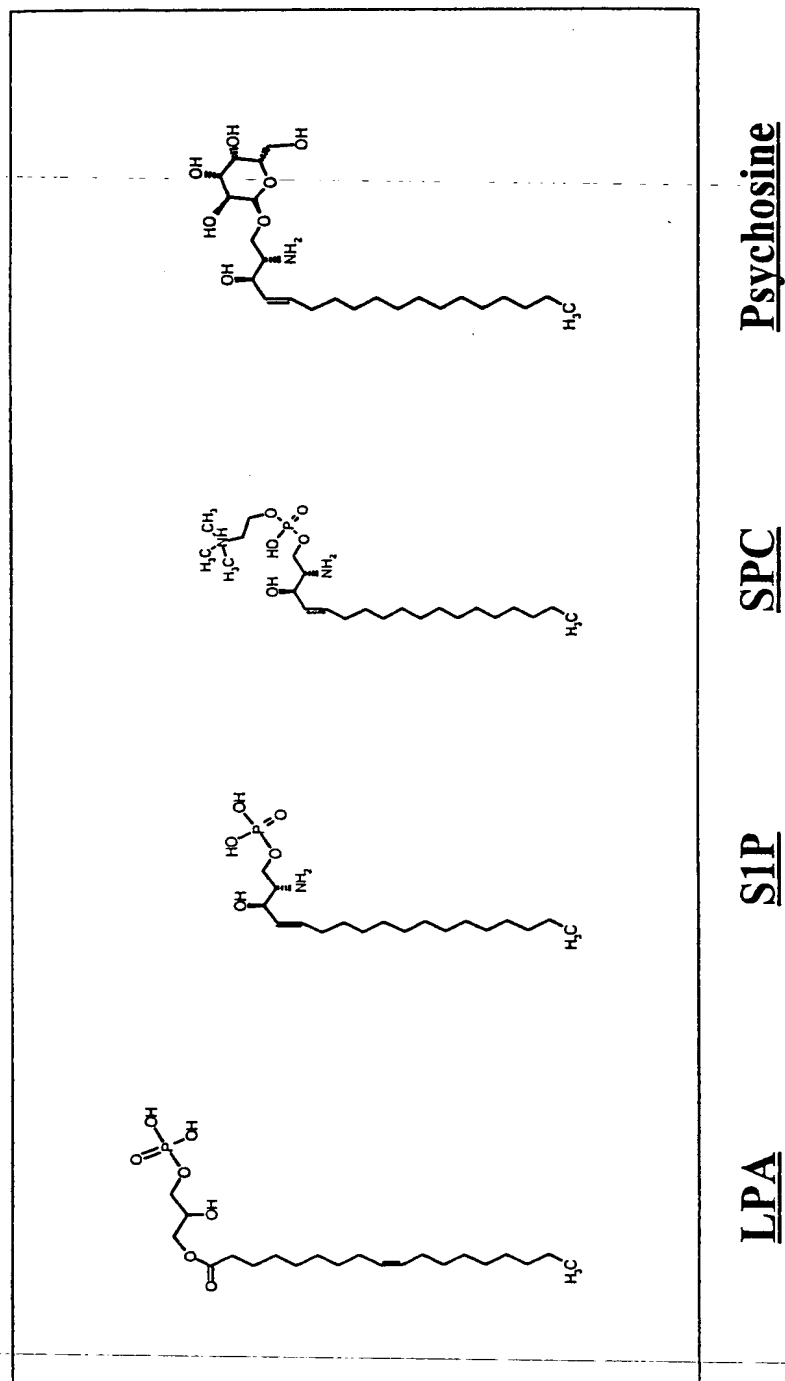


Figure 1B.

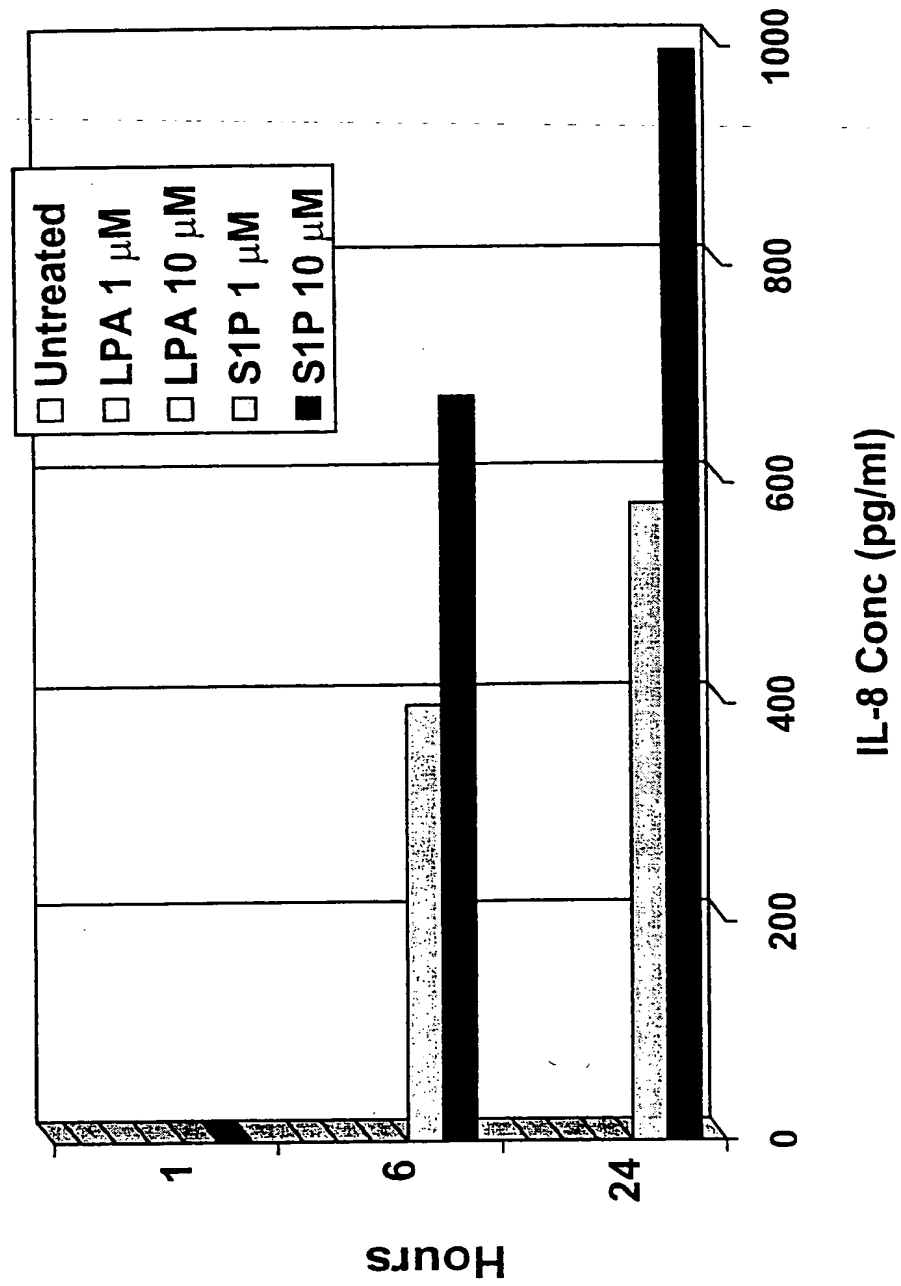


Figure 2A.

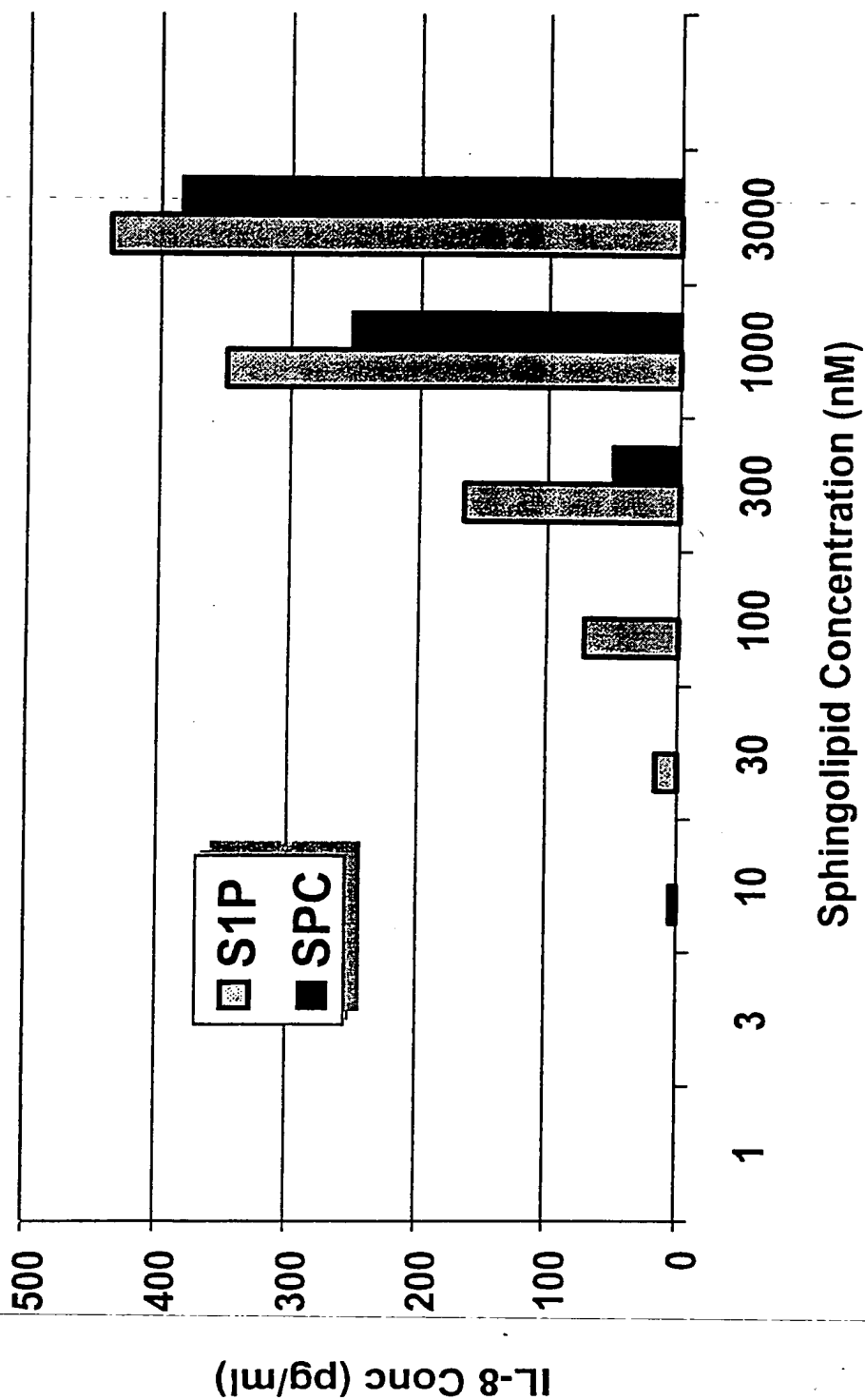


FIGURE 2

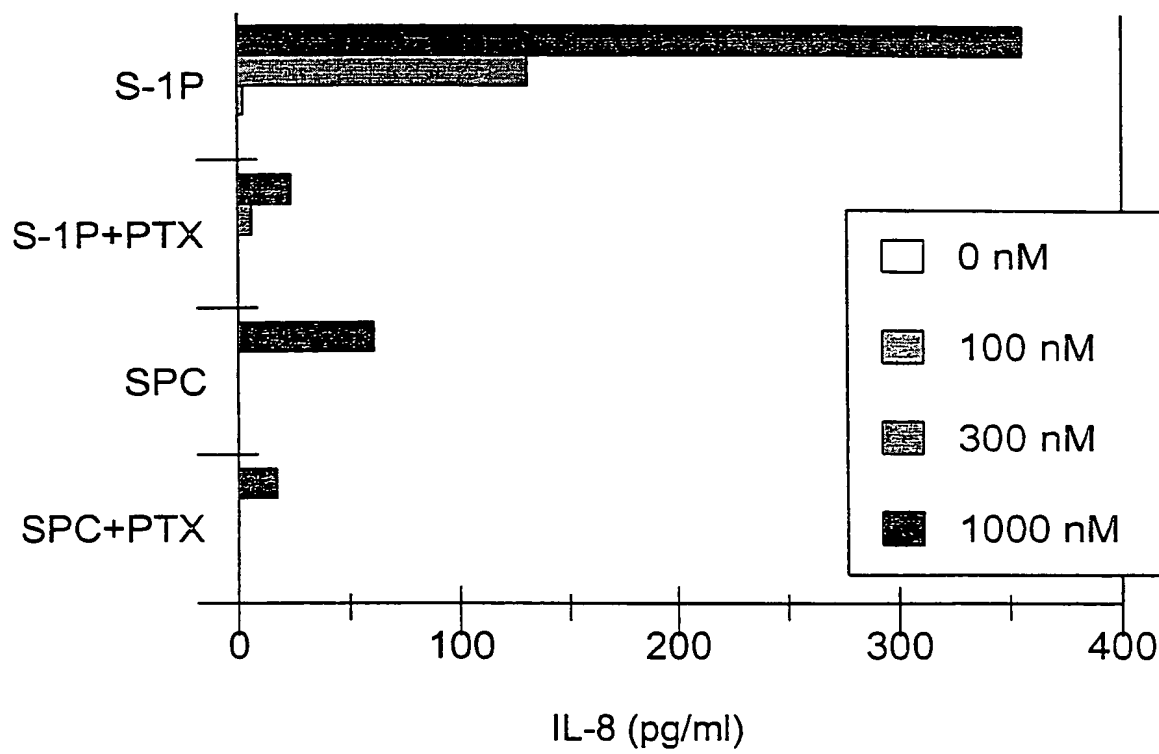


Figure 3.

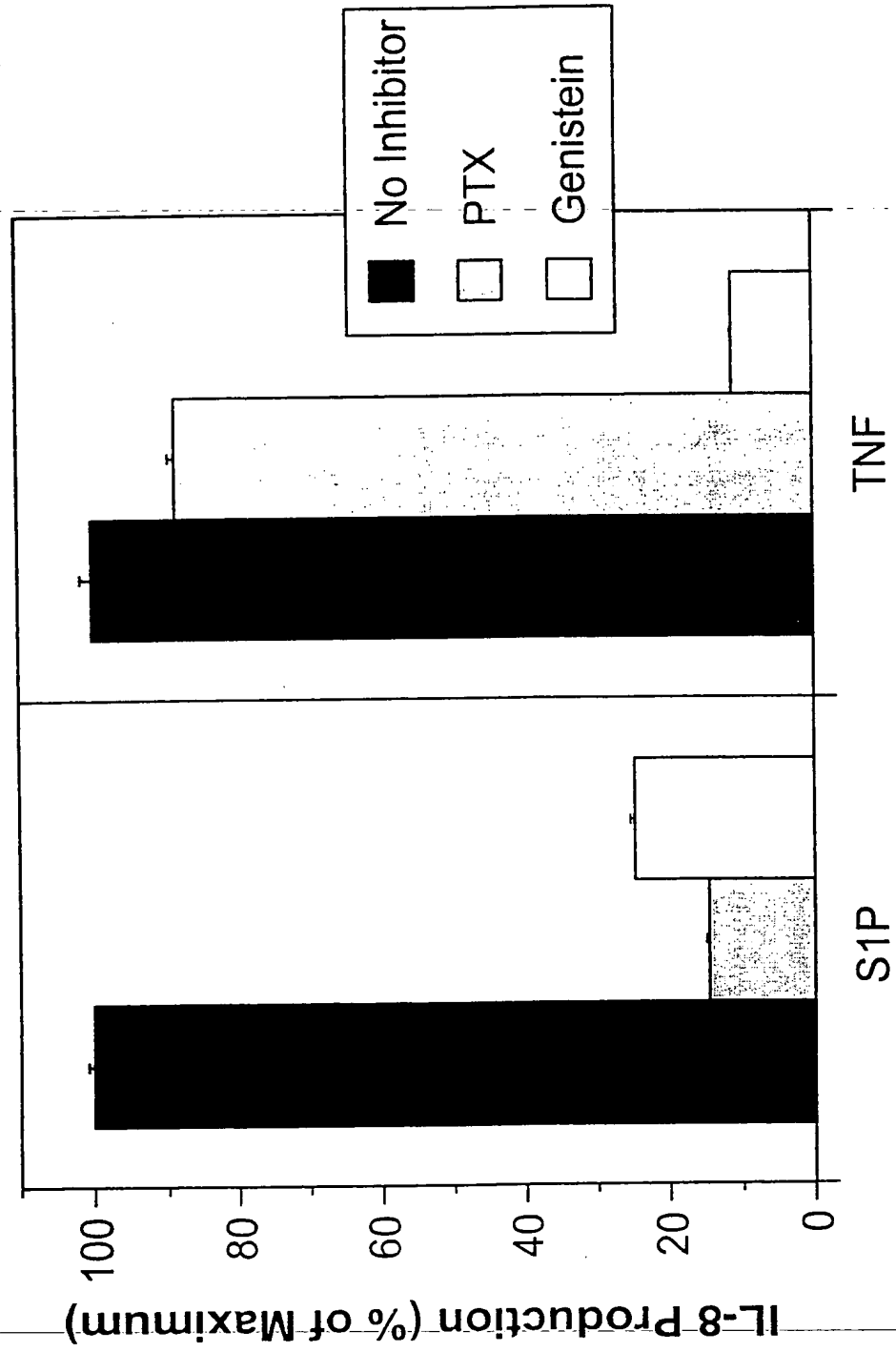


FIGURE 4A

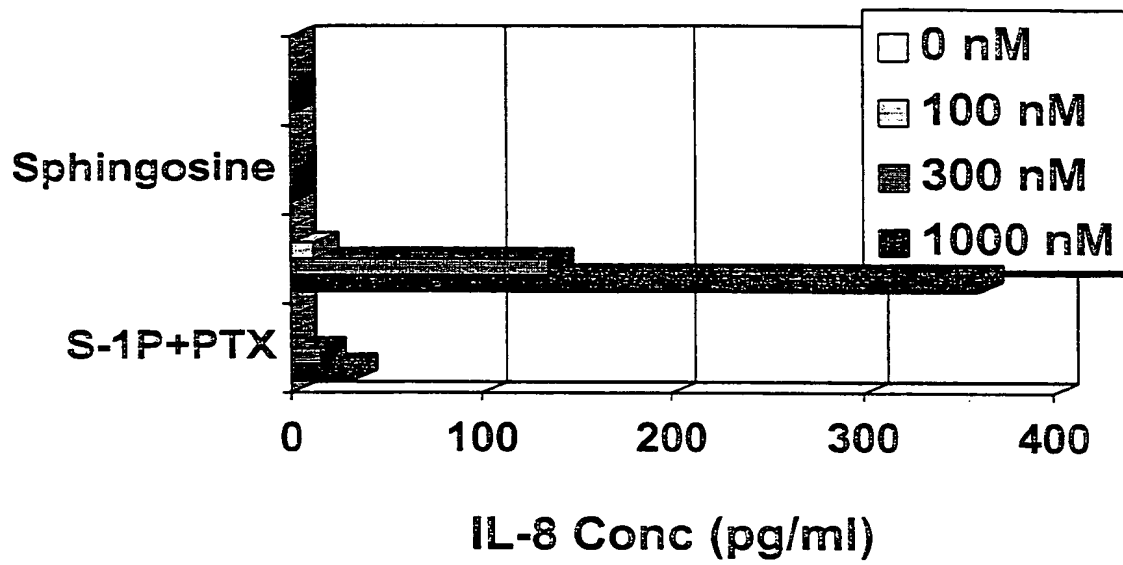
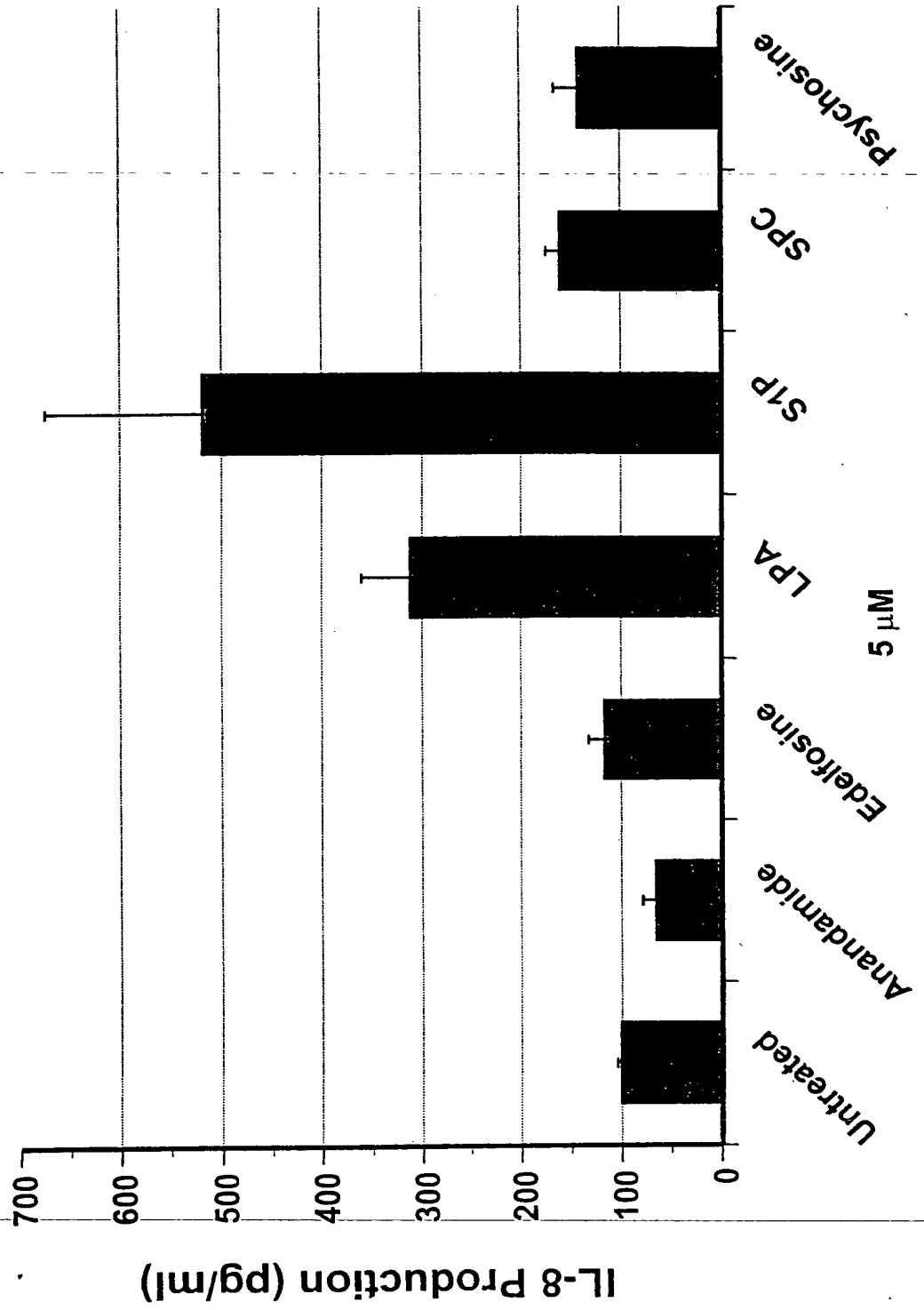


Figure 4B.



204190.70548001

Figure 5.

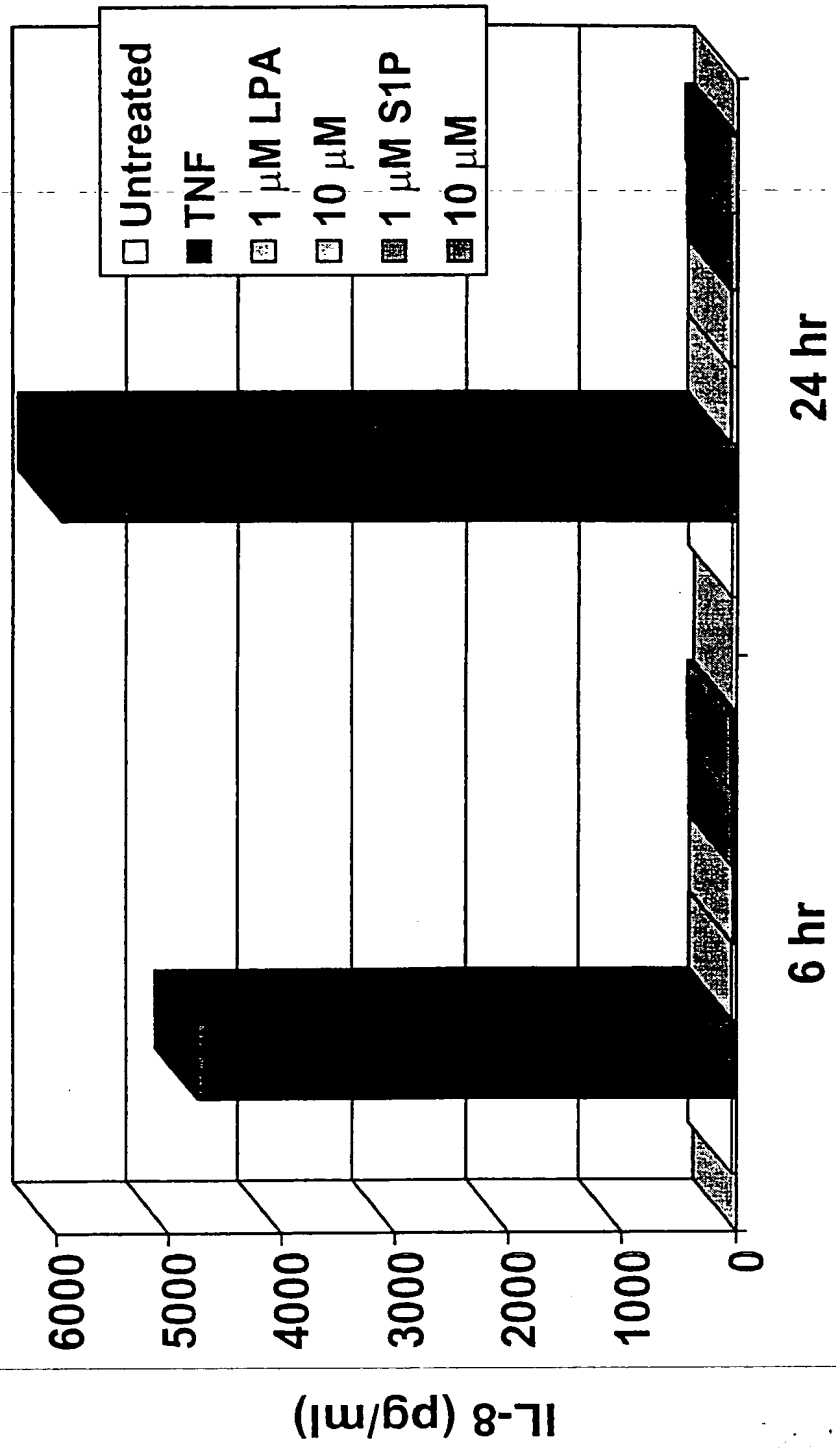
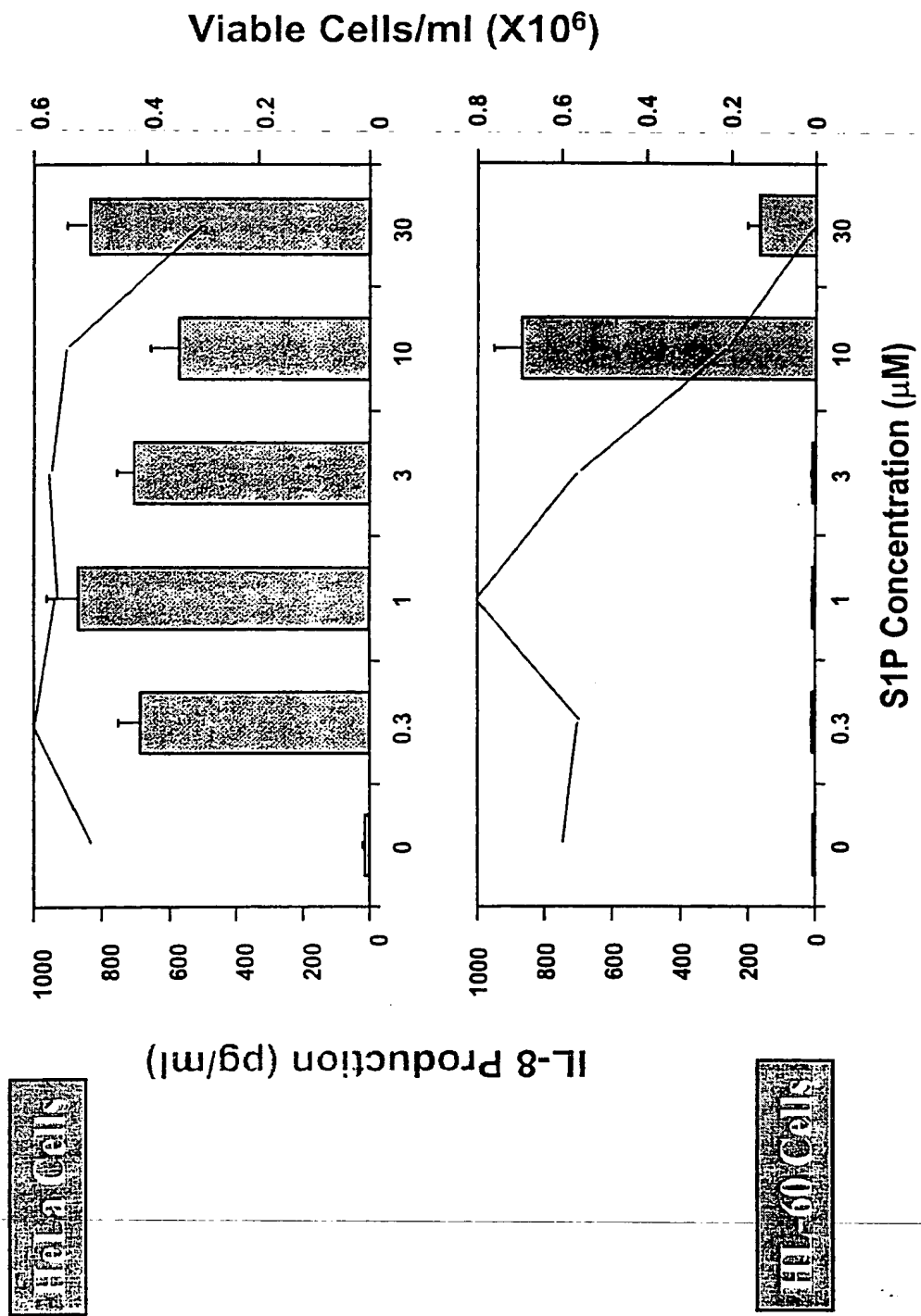




Figure 6.



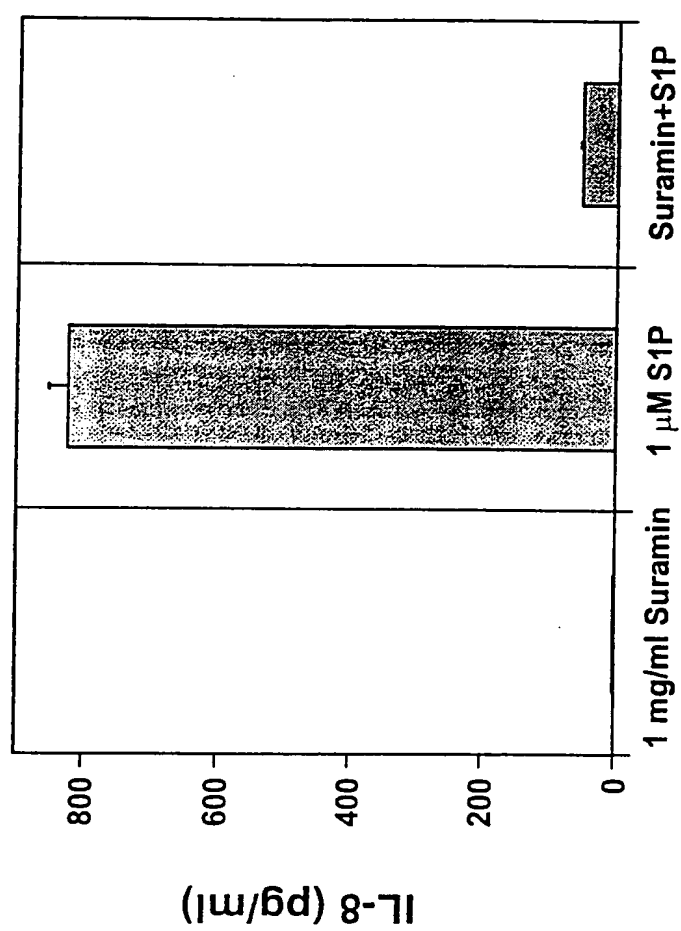


Figure 7.

Figure 8.

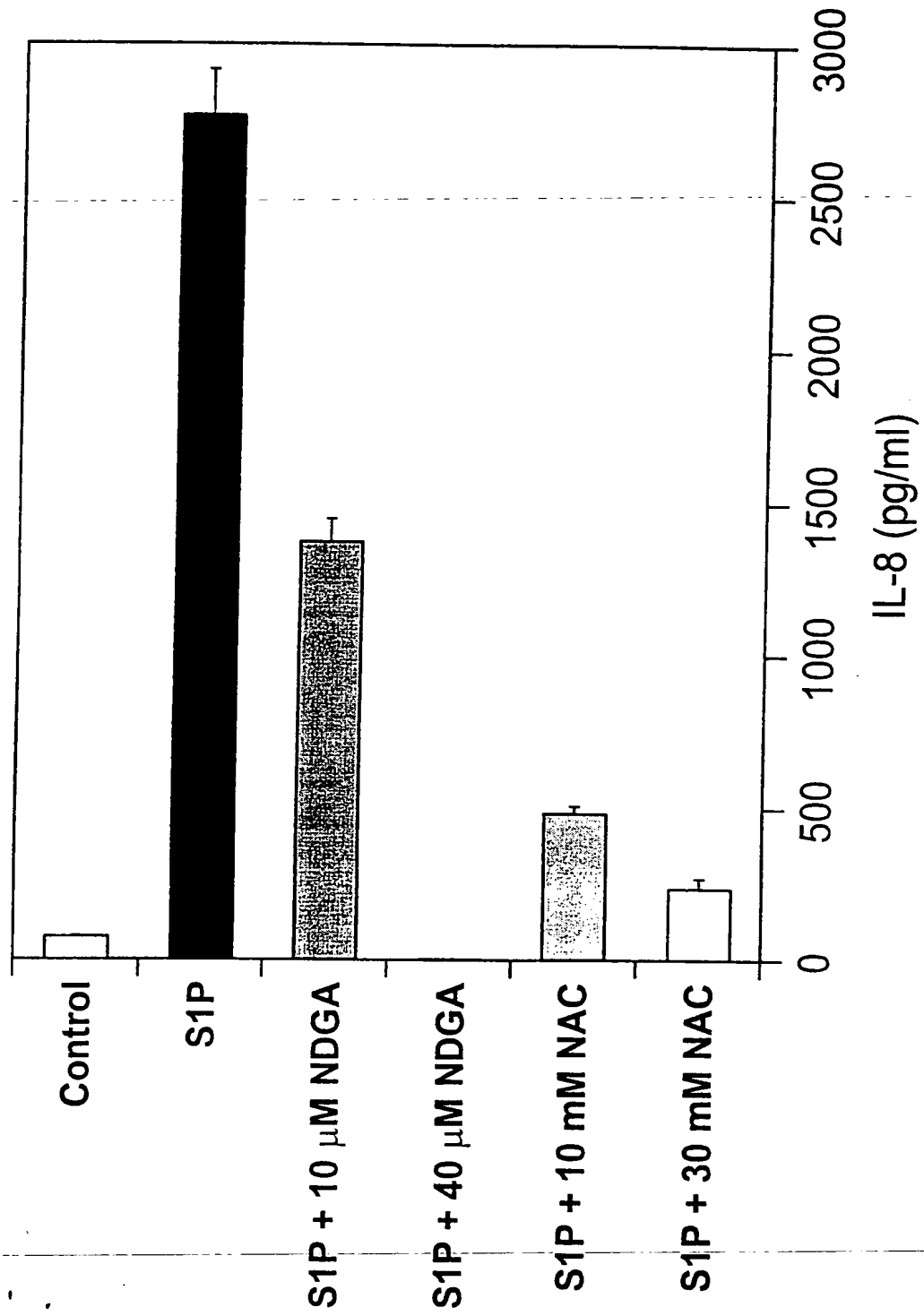


Figure 9.

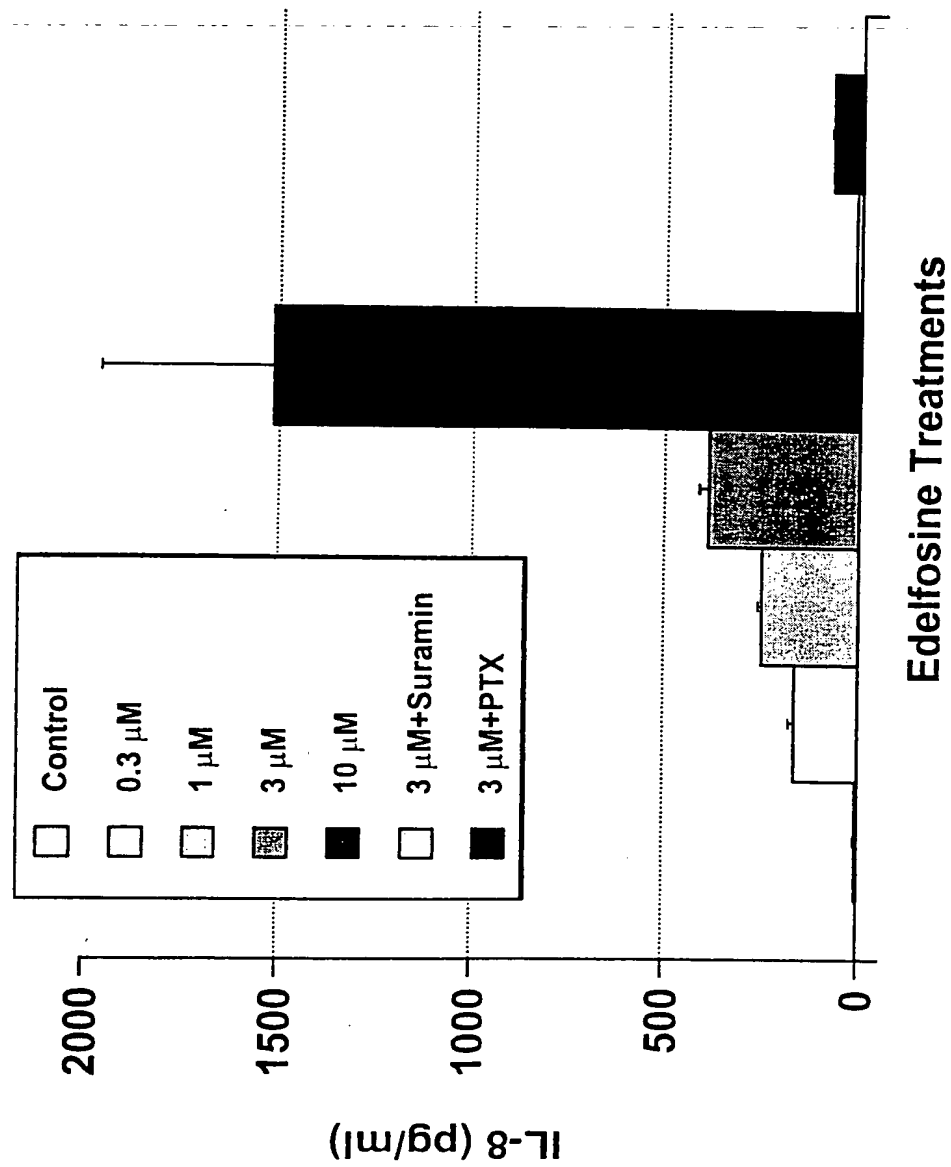


FIGURE 10A

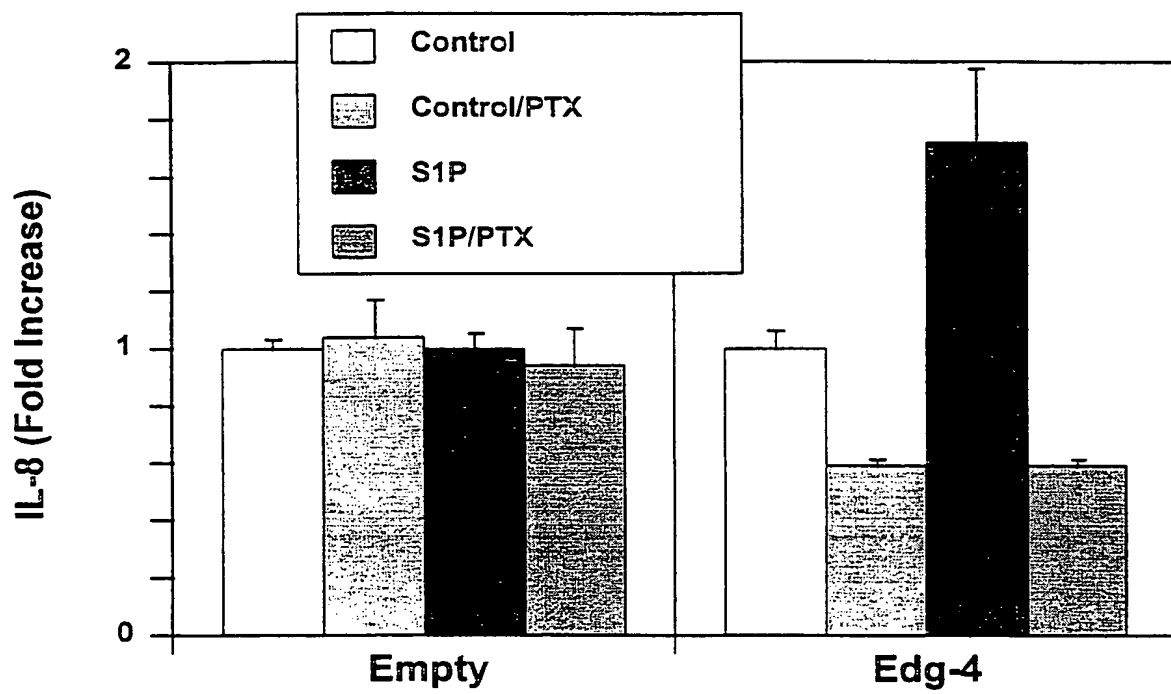


Figure 10B

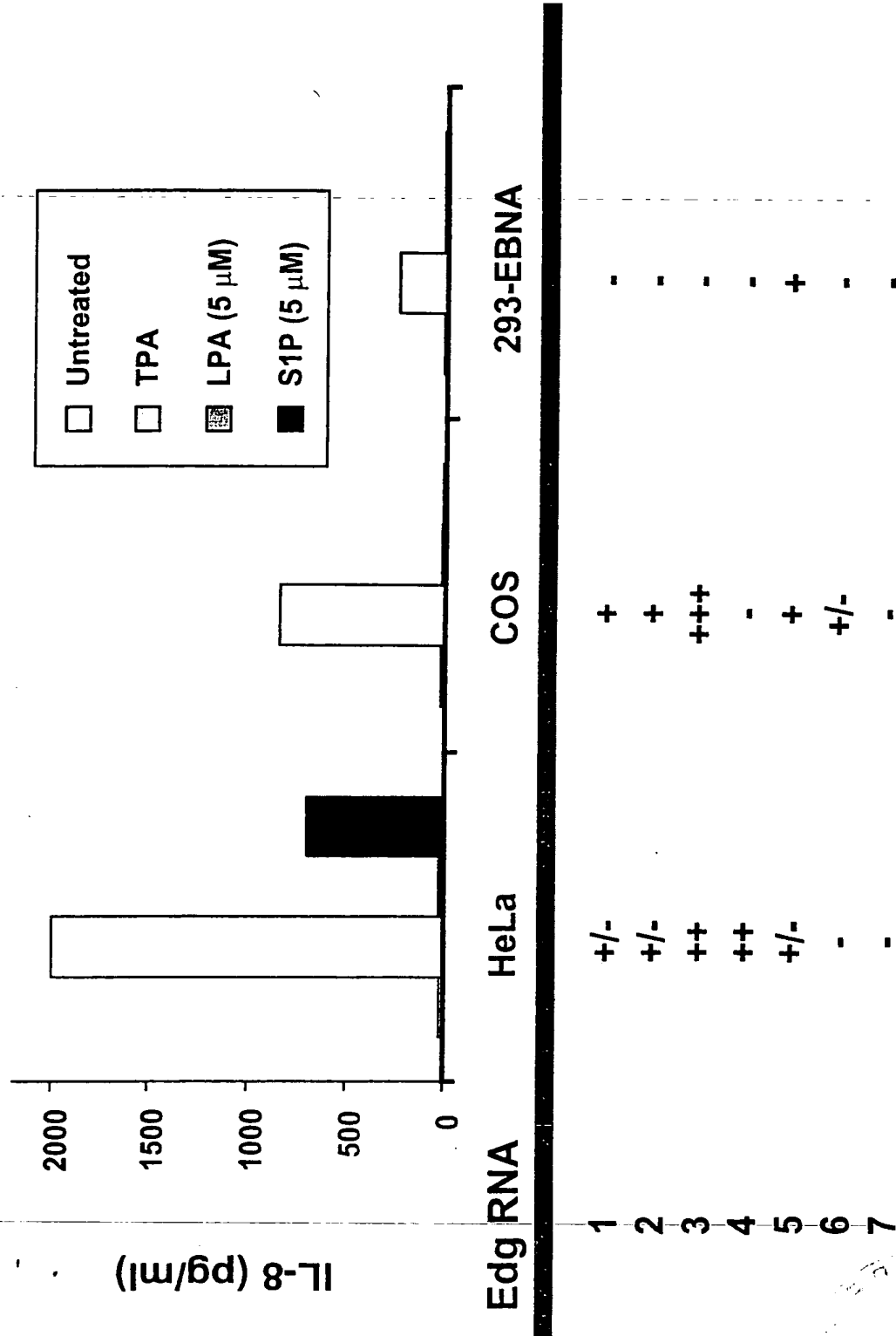


Figure 11.

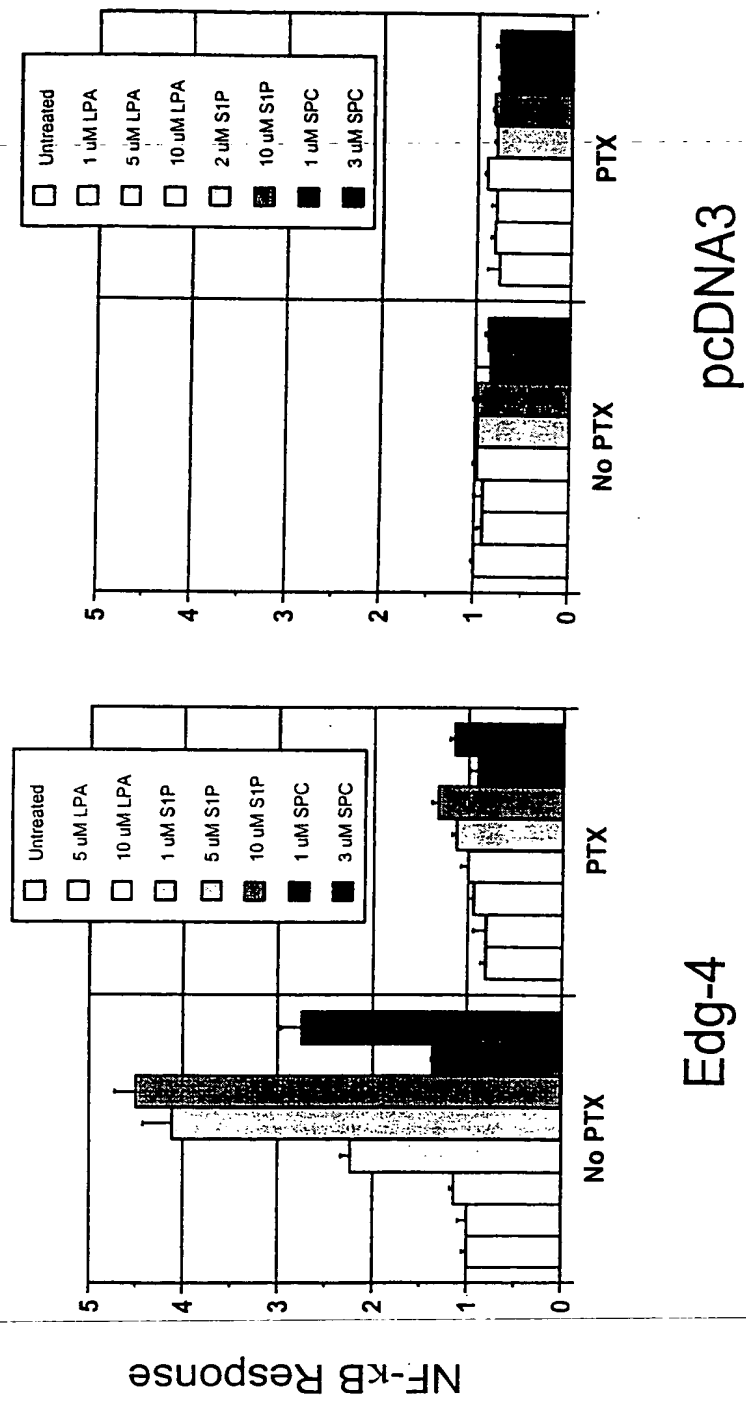


Figure 12.

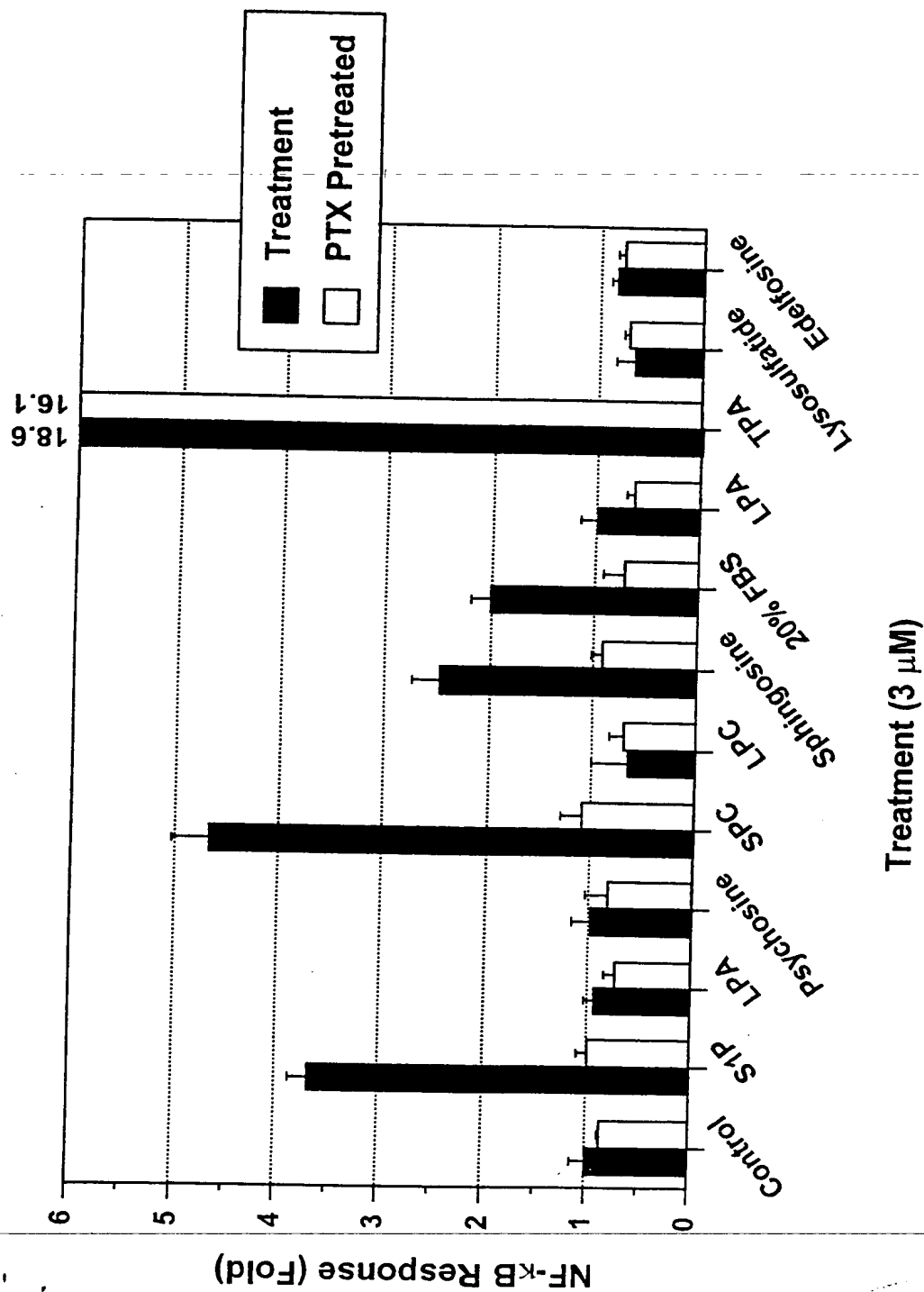




Figure 13.

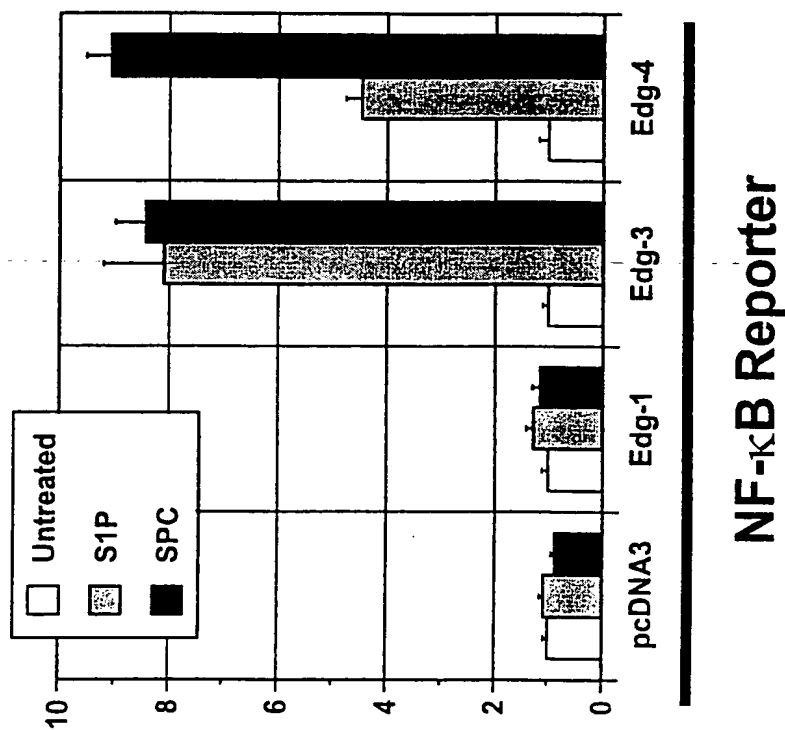
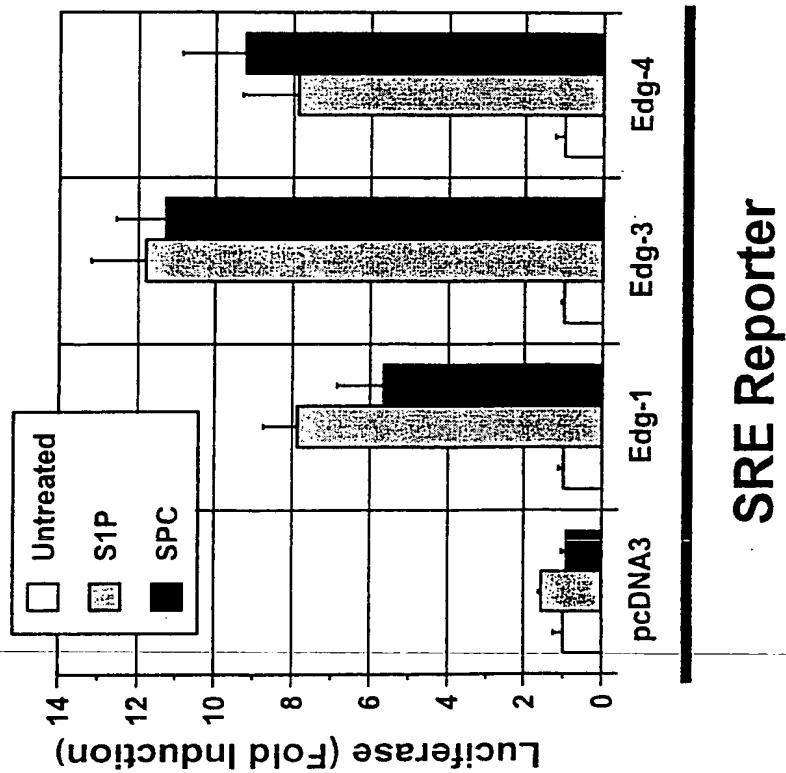


FIGURE 14

1					50
AA834537	-----AAA	GCCCCATGGC	CCCAGCAGGC	CTCTGAGCCC	CACCATGGGC
AA804628	-----AAA	GCCCCATGGC	CCCAGCAGGC	CTCTGAGCCC	CACCATGGGC
AA827835	AGTTCTGAAA	GCCCCATGGC	CCCAGCAGGC	CTCTGAGCCC	CACCATGGGC
	51				100
AA834537	AGCTTGACT	CGGAGTACCT	GAACCCCAAC	AAGGTCCAGG	AACACTATAA
AA804628	AGCTTGACT	CGGAGTACCT	GAACCCCAAC	AAGGTCCAGG	AACACTATAA
AA827835	AGCTTGACT	CGGAGTACCT	GAACCCCAAC	AAGGTCCAGG	AACACTATAA
	101				150
AA834537	TTATACCAAG	GAGACGCTGG	AAACGCAGGA	GACGACCTCC	CGCCAGGTGG
AA804628	TTATACCAAG	GAGACGCTGG	AAACGCAGGA	GACGACCTCC	CGCCAGGTGG
AA827835	TTATACCAAG	GAGACGCTGG	AAACGCAGGA	GACGACCTCC	CGCCAGGTGG
	151				200
AA834537	CCTCGGCATT	CATCGTCATC	CTCTGTTGCG	CCATTGTGGT	GGAAAACCTT
AA804628	CCTCGGCCTT	CATCGTCATC	CTCTGTTGCG	CCATTGTGGT	GGAAAACCTT
AA827835	GCTCGGCCTT	CATCGTCATC	CTCTGTTGCG	CCATTGTGGT	GGAAAACCTT
	201				250
AA834537	CTGGTGCTCA	TTGCGGTGGC	CCGAAACAGC	AAGTTCCACT	CGGCAATGTA
AA804628	CTGGTGCTCA	TTGCGGTGGC	CCGAAACAGC	AAGTTCCACT	CGGCAATGTA
AA827835	CTGGTGCTCA	TTGCGGTGGC	CCGAAACAGC	AAGTTCCACT	CGGCAATGTA
	251				300
AA834537	CCTGTTTCTG	GGCAACCTGG	CCGCCTCCGA	TCTACTGGCA	GGCGTGGCCT
AA804628	CCTGTTTCTG	GGCAACCTGG	CCGCCTCCGA	TCTACTGGCA	GGCGTGGCCT
AA827835	CCTGTTTCTG	GGCAACCTGG	CCGCCTCCGA	TCTACTGGCA	GGCGTGG . CT
	301				350
AA834537	TCGTAGCCAA	TACCTTGCTC	TCTGGCTCTG	TCACGCTGAG	GCTGACGCCT
AA804628	TCGTAGCCAA	TACCTTGCTC	TCTGGCTCTG	TCACGCTGAG	GCTGACGCCT
AA827835	TCGTAGCCAA	TACCTTGCTC	TCTGGCTCTG	TCACGCTGAG	GCTGACGCCT
	351				400
AA834537	GTGCAGTGGT	TTGCCCGGGA	CGGTCTGCCT	TCATCACGCT	CTCGGCCTCT
AA804628	GTGCAGTGGT	TTGCCCGGGA	C-----	-----	-----
AA827835	GTGCAGTGGT	TTGCCCGGGA	-----	-----	-----
	401				450
AA834537	GTCTTCAGCC	TCCTGGCCAT	CGCCATTGAG	CGCCACGTGG	CCATTGCAAA
AA804628	-----	-----	-----	-----	-----
AA827835	-----	-----	-----	-----	-----
	451				
AA834537	GG				
AA804628	--				
AA827835	--				

FIGURE 15 A

M G S L Y S E Y  
1 AAAGCCCCATGGCCCCAGCAGGCCTCTGAGCCCCACCATGGGCAGCTTGTACTCGGAGTA 60  
-----+-----+-----+-----+-----+-----+  
TTTCGGGGTACCGGGGTCGTCCGGAGACTCGGGGTGGTACCCGTGCAACATGAGCCTCAT  
L N P N K V Q E H Y N Y T K E T L E T Q  
61 CCTGAACCCCAACAAGGTCCAGGAACACTATAATTATACCAAGGAGACGCTGGAAACGCA 120  
-----+-----+-----+-----+-----+-----+  
GGACTTGGGGTTGTTCCAGGTCCTTGTGATATTAATATGGTTCTCTGCGACCTTTGCGT  
E T T S R Q V A S A F I V I L C C A I V  
121 GGAGACGACCTCCCGCCAGGTGGCCTCGGCCTTCATCGTCATCCTCTGTTGCGCCATTGT 180  
-----+-----+-----+-----+-----+-----+  
CCTCTGCTGGAGGGCGGTCCACCGAGCCGGAAGTAGCAGTAGGAGACAACCGGGTAACA  
V E N L L V L I A V A R N S K F H S A M  
181 GGTGGAACCTTCTGGTGCTCATTGCGGTGGCCCCGAAACAGCAAGTTCCTCGGCAAT 240  
-----+-----+-----+-----+-----+-----+  
CCACCTTTTGAAGACCACGAGTAACGCCACCGGGCTTTGTCGTTCAAGGTGAGCCGTTA  
Y L F L G N L A A S D L L A G V A F V A  
241 GTACCTGTTTCTGGGCAACCTGGCCGCTCCGATCTACTGGCAGGCGTGGCCTTCGTAGC 300  
-----+-----+-----+-----+-----+-----+  
CATGGACAAAGACCCGTTGGACCGGCGGAGGCTAGATGACCGTCCGCACCGGAAGCATCG  
N T L L S G S V T L R L T P V Q W F A R  
301 CAATACCTTGCTCTCTGGCTCTGTACGCTGAGGCTGACGCTGTGCAGTGGTTTGCCCCG 360  
-----+-----+-----+-----+-----+-----+  
GTTATGGAACGAGAGACCGAGACAGTGCGACTCCGACTGCGGACACGTACCAACCGGGC  
E G S A F I T L S A S V F S L L A I A I  
361 GGAGGGCTCTGCCTTCATCAGCTCTCGGCCTCTGTCTTCAGCCTCCTGGCCATCGCCAT 420  
-----+-----+-----+-----+-----+-----+  
CCTCCCGAGACGGAAGTAGTGCGAGAGCCGAGACAGAAGTCGGAGGACCGGTAGCGGTA  
E R H V A I A K V K L Y G S D K S C R M  
421 TGAGCGCCACGTGGCCATTGCCAAGGTCAAGCTGTATGGCAGCGACAAGAGCTGCCGCAT 480  
-----+-----+-----+-----+-----+-----+  
ACTCGCGGTGCACCGGTAACGGTTCCAGTTTCACATACCGTCTGCTGTTCTCGACGGCGTA  
L L L I G A S W L I S L V L G G L P I L  
481 GCTTCTGCTCATCGGGGCTCGTGGCTCATCTCGCTGGTCCTCGGTGGCCTGCCCATCCT 540  
-----+-----+-----+-----+-----+-----+  
CGAAGACGAGTAGCCCCGGAGCACCGAGTAGAGCGACAGGAGCCACCGGACGGGTAGGA  
G W N C L G H L E A C S T V L P L Y A K  
541 TGGCTGGAACCTGCCTGGGCCACCTCGAGGCTGCTCCACTGTCTGCTCTCTACGCCAA 600  
-----+-----+-----+-----+-----+-----+  
ACCGACCTTGACGGACCCGGTGGAGCTCCGACGAGGTGACAGGACGAGAGATGCGGTT  
H Y V L C V V T I F S I I L L A I V A L  
601 GCATTATGTGCTGTGCTGGTGACCATCTTCCATCATCCTGTTGGCCATCGTGGCCCT 660  
-----+-----+-----+-----+-----+-----+  
CGTAATACACGACACGCACCACTGGTAGAAGAGGTAGTAGGACAACCGGTAGCACCGGGA



**Figure 15B****cDNA sequence of clone pC3-hedg4#36 encoding functional HEDG4 receptor protein.**

```

1   ATGGGCAGCTTGTACTCGGAGTACCTGAACCCCAACAAGGTCCAGGAACACTATAATTAT   60
   -----+-----+-----+-----+-----+-----+
   TACCCGTCGAACATGAGCCTCATGGACTTGGGGTTGTTCCAGGTCCTTGTGATATTAATA

61  ACCAAGGAGACGCTGGAAACGCAGGAGACGACCTCCCGCCAGGTGGCCTCGGCCTTCATC   120
   -----+-----+-----+-----+-----+-----+
   TGGTTCCTCTGCGACCTTTGCGTCCTCTGCTGGAGGGCGGTCCACCGGAGCCGGAAGTAG

121 GTCATCCTCTGTTGCGCCATTGTGGTGGAACCTTCTGGTGCTCATTGCGGTGGCCCCGA   180
   -----+-----+-----+-----+-----+-----+
   CAGTAGGAGACAACGCGGTAACACCACCTTTTGAAGACCACGAGTAACGCCACCGGGCT

181 AACAGCAAGTTCCACTCGGCAATGTACCTGTTTCTGGGCAACCTGGCCGCCTCCGATCTA   240
   -----+-----+-----+-----+-----+-----+
   TTGTCGTTCAAGGTGAGCCGTTACATGGACAAAGACCCGTTGACCGGCGGAGGCTAGAT

241 CTGGCAGGCGTGGCCTTCGTAGCCAATACCTTGCTCTCTGGCTCTGTCACGCTGAGGCTG   300
   -----+-----+-----+-----+-----+-----+
   GACCGTCCGCACCGGAAGCATCGGTTATGGAACGAGAGACCGGAGACAGTGCAGCTCCGAC

301 ACGCCTGTGCAGTGGTTTGCCCGGGAGGGCTCTGCCTTCATCACGCTCTCGGCCTCTGTC   360
   -----+-----+-----+-----+-----+-----+
   TGCGGACACGTCACCAAACGGGCCCTCCCGAGACGGAAGTAGTGCGAGAGCCGGAGACAG

361 TTCAGCCTCTGGCCATCGCCATTGAGCGCCACGTGGCCATTGCCAAGGTCAAGCTGTAT   420
   -----+-----+-----+-----+-----+-----+
   AAGTCGGAGGACCGGTAGCGGTAACCTCGCGGTGCACCGGTAACGGTTCCAGTTCGACATA

421 GGCAGCGACAAGAGCTGCCGCATGCTTCTGCTCATCGGGGCCTCGTGGCTCATCTCGCTG   480
   -----+-----+-----+-----+-----+-----+
   CCGTCGCTGTTCTCGACGGCGTACGAAGACGAGTAGCCCCGGAGCACCGAGTAGAGCGAC

481 GTCCTCGGTGGCCTGCCCATCCTTGGCTGGAAGTGCCTGGGCCACCTCGAGGCCTGCTCC   540
   -----+-----+-----+-----+-----+-----+
   CAGGAGCCACCGGACGGGTAGGAACCGACCTTGACGGACCCGGTGGAGCTCCGGACGAGG

541 ACTGTCCTGCCTCTCTACGCCAAGCATTATGTGCTGTGCGTGGTGACCATCTTCTCCATC   600
   -----+-----+-----+-----+-----+-----+
   TGACAGGACGGAGAGATGCGGTTCTGTAATACACGACACGCACCACTGGTAGAAGAGGTAG

601 ATCCTGTTGGCCGTCGTGGCCCTGTACGTGCGCATCTACTGCGTGGTCCGCTCAAGCCAC   660
   -----+-----+-----+-----+-----+-----+
   TAGGACAACCGGCAGCACCGGGACATGCACGCGTAGATGACGCACCAGGCGAGTTCGGTG

661 GCTGACATGGCCGCCCGCGAGACGCTAGCCCTGCTCAAGACGGTCACCATCGTGCTAGGC   720
   -----+-----+-----+-----+-----+-----+
   CGACTGTACCGGCGGGGCGTCTGCGATCGGGACGAGTTCTGCCAGTGGTAGCACGATCCG

721 GTCTTTATCGTCTGCTGGCTGCCCGCCTTCAGCATCCTCCTTCTGGACTATGCCTGTCCC   780
   -----+-----+-----+-----+-----+-----+

```

	CAGAAATAGCAGACGACCGACGGGCGGAAGTCGTAGGAGGAAGACCTGATACGGACAGGG	
781	GTCCACTCCTGCCCGATCCTCTACAAAGCCCCTACCTTTTTCGCGGTCTCCACCCTGAAT -----+-----+-----+-----+-----+	840
	CAGGTGAGGACGGGCTAGGAGATGTTTCGGGTGATGGAAAAGCGGCAGAGGTGGGACTTA	
841	TCCCTGCTCAACCCCGTCATCTACACGTGGCGCAGCCGGGACCTGCGGCGGGAGGTGCTT -----+-----+-----+-----+-----+	900
	AGGGACGAGTTGGGGCAGTAGATGTGCACCGCGTCGGCCCTGGACGCCGCCCTCCACGAA	
901	CGGCCGCTGCAGTGCTGGCGGCCGGGGGTGGGGGTGCAAGGACGGAGGCGGGGCGGGACC -----+-----+-----+-----+-----+	960
	GCCGGCGACGTACGACCGCCGGCCCCCACCCCACGTTCTGCCTCCGCCCCGCCCTGG	
961	CCGGGCCACCACTCCTGCCACTCCGCAGCTCCAGCTCCCTGGAGAGGGGCATGCACATG -----+-----+-----+-----+-----+	1020
	GGCCCGGTGGTGGAGGACGGTGAGGCGTCGAGGTCGAGGGACCTCTCCCGTACGTGTAC	
1021	CCCACGTACCCACGTTTCTGGAGGGCAACACGGTGGTCTGA -----+-----+-----+-----+	1062
	GGGTGCAGTGGGTGCAAAGACCTCCCGTTGTGCCACCAGACT	

## FIGURE 16 A

```

1  MGSLYSEYLN PNKVQEHYNY TKETLETQET TSRQVASAFI VILCCAIVVE
51  NLLVLIARV NSKFHSAMYL FLGNLAASDL LAGVAFVANT LLSGSVTLRRL
101 TPVQWFAREG SAFITLSASV FSLLAIAIER HVAIAKVKLY GSDKSCRMLL
151 LIGASWLISL VLGGLPILGW NCLGHLEACS TVLPLYAKHY VLCVVTIFSI
201 ILLAIVALYV RIYCVVRSSH ADMAAPQTLA LLKTVTIVLG VFIVCWLPAF
251 SILLLDYACP VHSCPILYKA HYXFAVSTLN SLLNPVIYTW RSRDLRREVL
301 RPLQCWRPGV GVQGRRRGGT PGHLLPLRS SSSLERGMHM PTSPTFLEGN
351 TVV*

```

## Conserved features of G-protein coupled receptors include:

N-terminal extracellular domain:	Residues 1 - 36
TM-I:	Residues 37 - 57
Intracellular loop 1:	Residues 58 - 68
TM-II:	Residues 69 - 92
Extracellular loop 1:	Residues 93 - 111
TM-III:	Residues 112 - 130
Intracellular loop 2:	Residues 131 - 149
TM-IV:	Residues 150 - 168
Extracellular loop 2:	Residues 169 - 185
TM-V:	Residues 186 - 210
Intracellular loop 3:	Residues 211 - 232
TM-VI:	Residues 233 - 254
Extracellular loop 3:	Residues 255 - 266
TM-VII:	Residues 267 - 285
C-terminal cytoplasmic domain:	Residues 286 - 353

## Potential post-transcriptional modification sites:

N-glycosylation:	Residues 19
Phosphorylation:	Residues 142, 145, 219, 289, 332, 345
Myristylation:	Residues 141, 318

**Figure 16B**

**Predicted amino acid sequence of HEDG4 polypeptide encoded by pC3-hedg4#36.**

1 MGSLYSEYLN PNKVQEHYNY TKETLETQET TSRQVASAFI VILCCAIVVE  
51 NLLVLIAVAR NSKFHSAMYL FLGNLAASDL LAGVAFVANT LLGGSVTLRL  
101 TPVQWFAREG SAFITLSASV FSLLAIAIER HVAIAKVKLY GSDKSCRMLL  
151 LIGASWLISL VLGGLPILGW NCLGHLEACS TVLPLYAKHY VLCVVTIFSI  
201 ILLAVVALYV RIYCVVRSSH ADMAAPQTLA LLKTVTIVLG VFIVCWLPAF  
251 SILLLDYACP VHSCPILYKA HYLFAVSTLN SLLNPVIYTW RSRDLRREVL  
301 RPLQCWRPGV GVQGRRRGGT PGHHLLPLRS SSSLERGMHM PTSPTFLEGN  
351 TVV



FIGURE 17 A

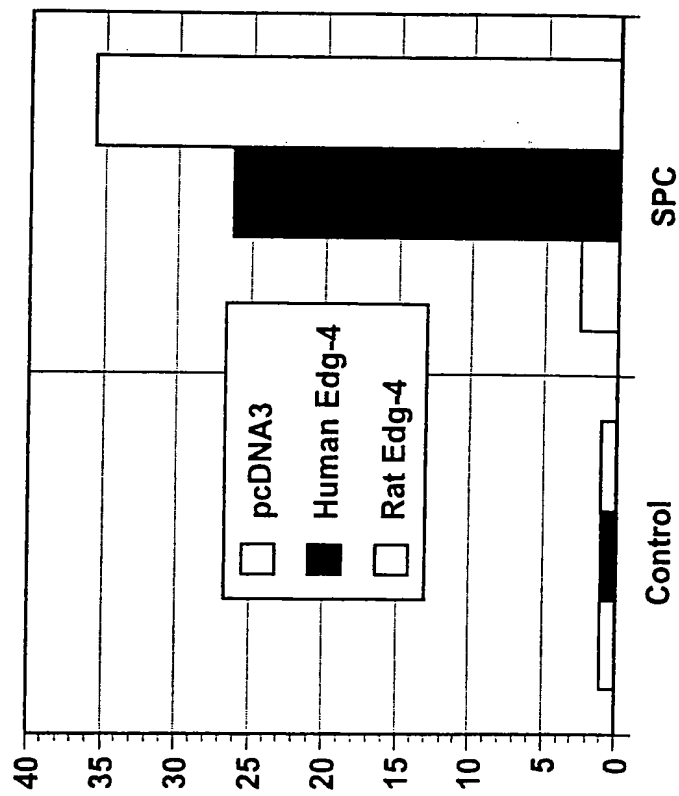
Human	1	MGS	LYSE	YLNPNKVQEHYNYTKETLETQETTSRQVASAFIVILCCAIVVE	50
Rat	1	MGG	LYSE	YLNPEKVQEHYNYTKETLDMQETPSRKVASAFIIILCCAIVVE	50
Human	51	NLLV	LI	AVARN	SKFHS
Rat	51	NLLV	LI	AVARN	SKFHS
Human	101	TPVQ	WFA	REGS	AFITLS
Rat	101	TPLQ	WFA	REGS	AFITLS
Human	151	LIGAS	WLIS	LV	LGGL
Rat	151	LIGAS	WLIS	LV	LGGL
Human	201	ILLAI	VALY	VRIY	CVVR
Rat	201	ILLAI	VALY	VRIY	CVVR
Human	251	SILL	LDY	ACPV	HSC
Rat	251	SILL	LDST	CPVR	ACPV
Human	301	RPLQ	CWR	PGV	GVQ
Rat	301	RPLL	CWR	QKG	GATG
Human	351	TVV*			353
Rat	350	TVV*			352

Figure 17B

**Alignment of HEDG4 with pC3-hedg4#36 translation product and rat H218 (REDG4).** Differences between pC3-hedg4#36 translation product and previously determined HEDG4 polypeptide are indicated in reverse text. Differences between rat and human edg-4 polypeptide sequences are shown in bold, shaded text.

	1				50																																													
HEDG4	M	G	S	L	Y	S	E	Y	L	N	P	N	K	V	Q	E	H	Y	N	T	K	E	T	L	E	T	Q	E	T	S	R	Q	V	A	S	A	F	I	V	I	L	C	C	A	I	V	V	E		
HEDG4#36	M	G	S	L	Y	S	E	Y	L	N	P	N	K	V	Q	E	H	Y	N	T	K	E	T	L	E	T	Q	E	T	S	R	Q	V	A	S	A	F	I	V	I	L	C	C	A	I	V	V	E		
REDG4	M	G	G	L	Y	S	E	Y	L	N	P	E	K	V	Q	E	H	Y	N	T	K	E	T	L	D	M	Q	E	T	S	R	E	V	A	S	A	F	I	V	I	L	C	C	A	I	V	V	E		
	51					100																																												
HEDG4	N	L	L	V	L	I	A	V	A	R	N	S	K	F	H	S	A	M	Y	L	F	L	G	N	L	A	A	S	D	L	L	A	G	V	A	F	V	A	N	T	L	L	S	G	S	V	T	L	R	L
HEDG4#36	N	L	L	V	L	I	A	V	A	R	N	S	K	F	H	S	A	M	Y	L	F	L	G	N	L	A	A	S	D	L	L	A	G	V	A	F	V	A	N	T	L	L	S	G	S	V	T	L	R	L
REDG4	N	L	L	V	L	I	A	V	A	R	N	S	K	F	H	S	A	M	Y	L	F	L	G	N	L	A	A	S	D	L	L	A	G	V	A	F	V	A	N	T	L	L	S	G	E	V	T	L	S	L
	101					150																																												
HEDG4	T	P	V	Q	W	F	A	R	E	G	S	A	F	I	T	L	S	A	S	V	F	S	L	L	A	I	A	I	E	R	H	V	A	I	A	K	V	K	L	Y	G	S	D	K	S	C	R	M	L	L
HEDG4#36	T	P	V	Q	W	F	A	R	E	G	S	A	F	I	T	L	S	A	S	V	F	S	L	L	A	I	A	I	E	R	H	V	A	I	A	K	V	K	L	Y	G	S	D	K	S	C	R	M	L	L
REDG4	T	P	I	Q	W	F	A	R	E	G	S	A	F	I	T	L	S	A	S	V	F	S	L	L	A	I	A	I	E	R	Q	V	A	I	A	K	V	K	L	Y	G	S	D	K	S	C	R	M	L	M
	151					200																																												
HEDG4	L	I	G	A	S	W	L	I	S	L	V	L	G	G	L	P	I	L	G	W	N	C	L	G	H	L	E	A	C	S	T	V	L	P	L	Y	A	K	H	Y	V	L	C	V	V	T	I	F	S	I
HEDG4#36	L	I	G	A	S	W	L	I	S	L	V	L	G	G	L	P	I	L	G	W	N	C	L	G	H	L	E	A	C	S	T	V	L	P	L	Y	A	K	H	Y	V	L	C	V	V	T	I	F	S	I
REDG4	L	I	G	A	S	W	L	I	S	L	V	L	G	G	L	P	I	L	G	W	N	C	L	D	H	L	E	A	C	S	T	V	L	P	L	Y	A	K	H	Y	V	L	C	V	V	T	I	F	S	V
	201					250																																												
HEDG4	I	L	L	A	V	V	A	L	Y	V	R	I	Y	C	V	V	R	S	S	H	A	D	M	A	A	P	Q	T	L	A	L	L	K	T	V	T	I	V	L	G	V	F	I	V	C	W	L	P	A	F
HEDG4#36	I	L	L	A	V	V	A	L	Y	V	R	I	Y	C	V	V	R	S	S	H	A	D	M	A	A	P	Q	T	L	A	L	L	K	T	V	T	I	V	L	G	V	F	I	V	C	W	L	P	A	F
REDG4	I	L	L	A	I	V	A	L	Y	V	R	I	Y	F	V	V	R	S	S	H	A	D	V	A	G	P	Q	T	L	A	L	L	K	T	V	T	I	V	L	G	V	F	I	I	C	W	L	P	A	F
	251					300																																												
HEDG4	S	I	L	L	L	D	Y	A	C	P	V	H	S	C	P	I	L	Y	K	A	H	Y	X	F	A	V	S	T	L	N	S	L	L	N	P	V	I	Y	T	W	R	S	R	D	L	R	R	E	V	L
HEDG4#36	S	I	L	L	L	D	Y	A	C	P	V	H	S	C	P	I	L	Y	K	A	H	Y	X	F	A	V	S	T	L	N	S	L	L	N	P	V	I	Y	T	W	R	S	R	D	L	R	R	E	V	L
REDG4	S	I	L	L	L	D	S	T	C	P	V	R	A	C	P	V	L	Y	K	A	H	Y	E	F	A	F	A	T	L	N	S	L	L	N	P	V	I	Y	T	W	R	S	R	D	L	R	R	E	V	L
	301					350																																												
HEDG4	R	P	L	Q	C	W	R	P	G	V	G	V	Q	R	R	R	R	G	G	T	P	G	H	H	L	L	P	L	R	S	S	S	L	R	G	M	H	M	P	T	S	P	T	F	L	E	G	N		
HEDG4#36	R	P	L	Q	C	W	R	P	G	V	G	V	Q	R	R	R	R	G	G	T	P	G	H	H	L	L	P	L	R	S	S	S	L	R	G	M	H	M	P	T	S	P	T	F	L	E	G	N		
REDG4	R	P	L	L	C	W	R	Q	G	K	G	A	T	G	.	R	R	G	G	N	P	G	H	R	L	L	P	L	R	S	S	S	L	R	G	L	H	M	P	T	S	P	T	F	L	E	G	N		
	351																																																	
HEDG4	T	V	V	-																																														
HEDG4#36	T	V	V	-																																														
REDG4	T	V	V	-																																														

Figure 18A.



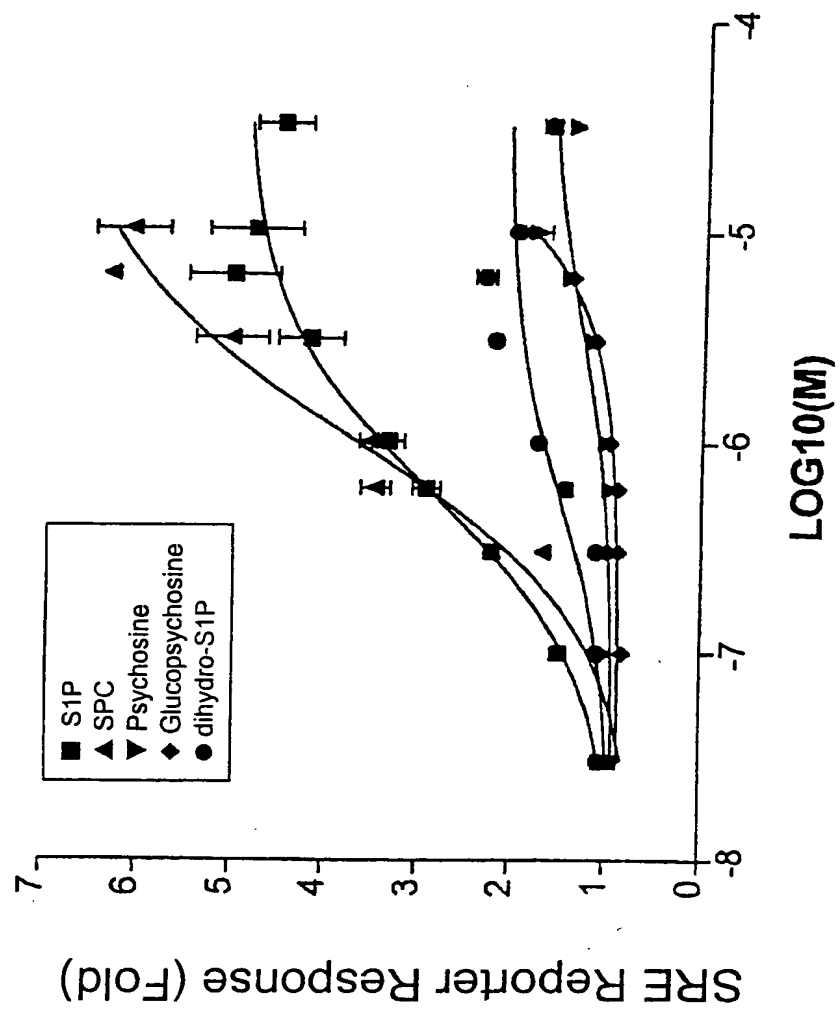


Figure 18B.

Figure 19.

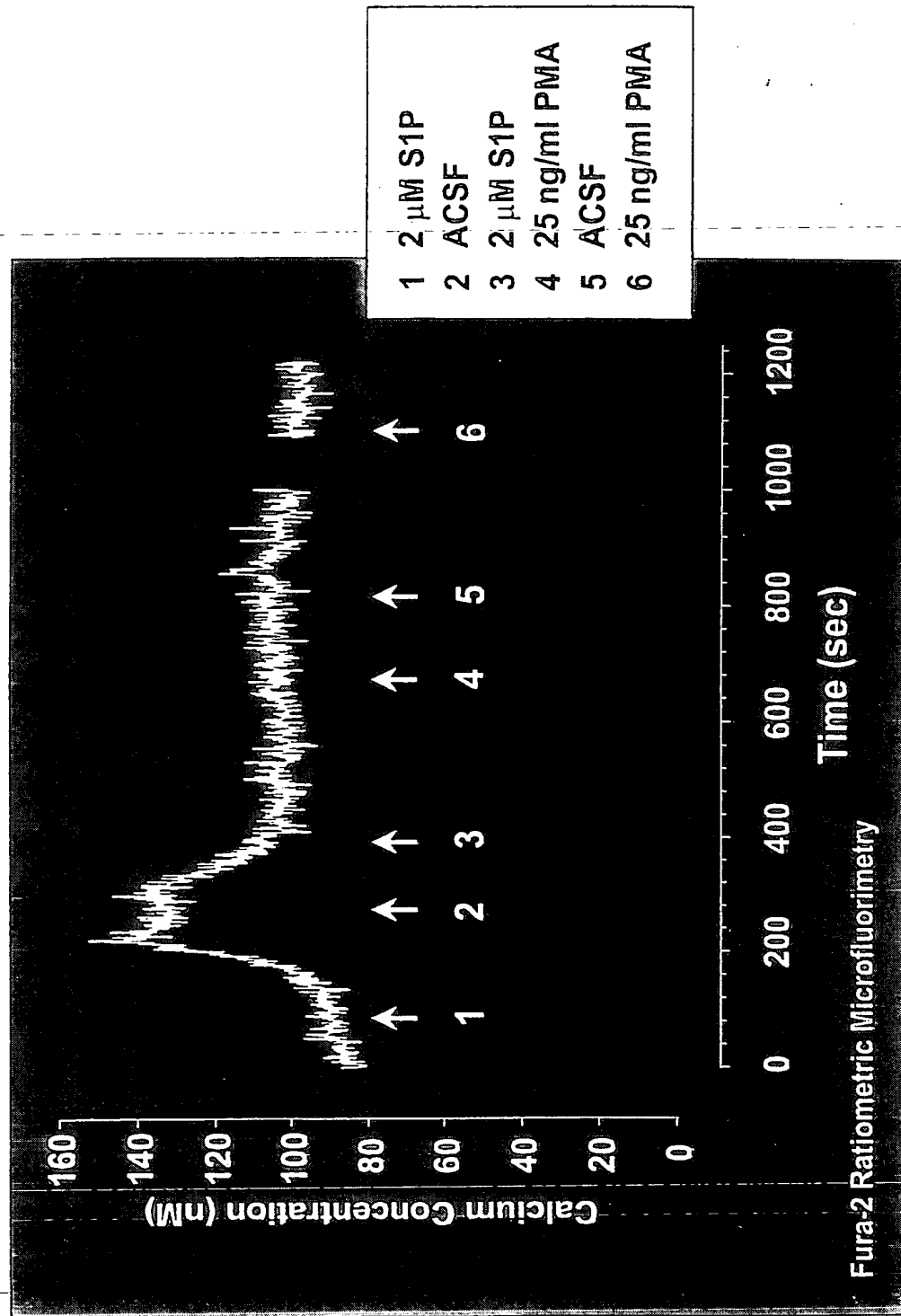


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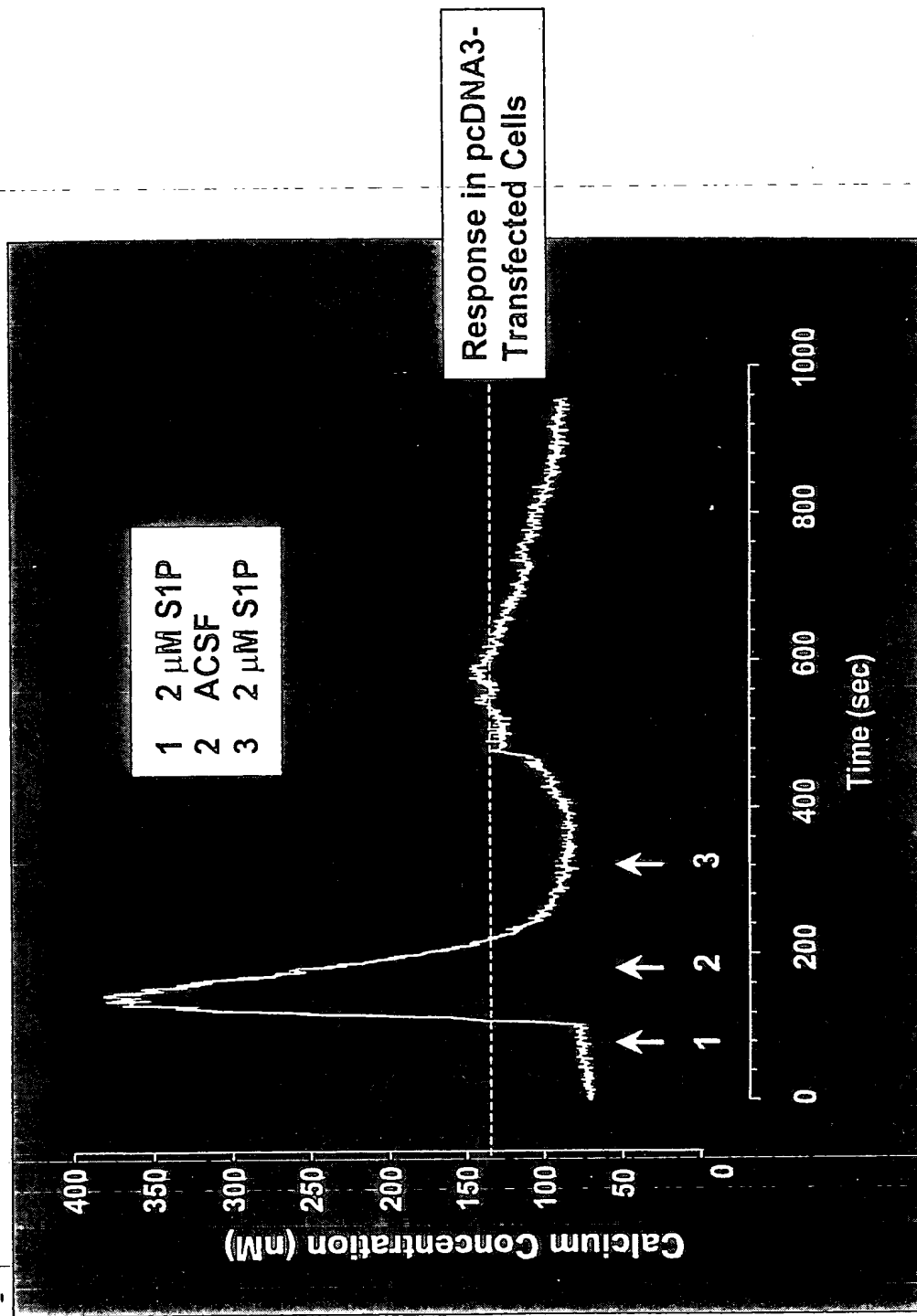


Figure 21. Human Edg-6 Amino Acid Sequence.

```

      MVIMGQCYNETIGFFYNNSGKELSSHWRPKDVVVVALGLTVSVLVLLTNLLVIAAIASN
1  -----+-----+-----+-----+-----+-----+-----+
      RRFHQPIYYLLGNLAAADLFAGVAYLFLMFHTGPRTARLSLEGWFLRQGLLDTSLTASVA
61 -----+-----+-----+-----+-----+-----+-----+
      TLLAIAVERHRVMAVQLHSRLPRGRVVMLIVGVVVAALGLGLLPAHSWHCLCALDRCSR
121 -----+-----+-----+-----+-----+-----+-----+
      MAPLLRSYLAVWALSLLVFLLMVAVYTRIFFYVRRRVQRM AEHVSCHPRYRETTLSLV
181 -----+-----+-----+-----+-----+-----+-----+
      KTVVIILGAFVVCWTPGQVVLLLDGLGCESC NVLAVEKYFLLLAEANSLVNAAVYSCRDA
241 -----+-----+-----+-----+-----+-----+-----+
      EMRRTFRRLCCACL RQSTRESVHYTSSAQGGASTRIMLPENGHPLMDSTL*
301 -----+-----+-----+-----+-----+-----+-----+ 352
```

Figure 22. Human Edg-6 Sequence

```

1   ATGGTCATCATGGGCCAGTGCTACTACAACGAGACCATCGGCTTCTTCTATAACAACAGT
-----+-----+-----+-----+-----+-----+-----+
61  TACCAGTAGTACCCGGTCACGATGATGTTGCTCTGGTAGCCGAAGAAGATATTGTTGTCA
-----+-----+-----+-----+-----+-----+-----+
    GGCAAAGAGCTCAGCTCCCACTGGCGGCCCAAGGATGTGGTTCGTGGTGGCACTGGGGCTG
-----+-----+-----+-----+-----+-----+-----+
121 CCGTTTCTCGAGTCGAGGGTGACCGCCGGGTTCCCTACACCAGCACCACCGTGACCCCGAC
-----+-----+-----+-----+-----+-----+-----+
    ACCGTCAGCGTGCTGGTGCTGCTGACCAATCTGCTGGTCATAGCAGCCATCGCCTCCAAC
-----+-----+-----+-----+-----+-----+-----+
181 TGGCAGTCGCACGACCACGACGACTGGTTAGACGACCAGTATCGTCGGTAGCGGAGGTTG
-----+-----+-----+-----+-----+-----+-----+
    CGCCGCTTCCACCAGCCCATCTACTACCTGCTCGGCAATCTGGCCGCGGCTGACCTCTTC
-----+-----+-----+-----+-----+-----+-----+
241 GCGGCGAAGGTGGTTCGGTAGATGATGGACGAGCCGTTAGACCGGCGCCGACTGGAGAAG
-----+-----+-----+-----+-----+-----+-----+
    GCGGGCGTGGCCTACCTCTTCCTCATGTTCCACACTGGTCCCCGCACAGCCCGACTTTCA
-----+-----+-----+-----+-----+-----+-----+
301 CGCCCCGACCCGATGGAGAAGGAGTACAAGGTGTGACCAGGGGCGTGTGCGGGCTGAAAGT
-----+-----+-----+-----+-----+-----+-----+
    CTTGAGGGCTGGTTCCTGCGGCAGGGCTTGCTGGACACAAGCCTCACTGCGTCGGTGGCC
-----+-----+-----+-----+-----+-----+-----+
361 GAACTCCCCGACCAAGGACGCCGTCCCGAACGACCTGTGTTTCGGAGTGACGCAGCCACCGG
-----+-----+-----+-----+-----+-----+-----+
    ACACTGCTGGCCATCGCCGTGGAGCGGCACCGCAGTGTGATGGCCGTGCAGCTGCACAGC
-----+-----+-----+-----+-----+-----+-----+
421 TGTGACGACCCGTAGCGGCACCTCGCCGTGGCGTCACACTACCGGCACGTGCAGCTGTTCG
-----+-----+-----+-----+-----+-----+-----+
    CGCCTGCCCCGTGGCCGCGTGGTTCATGCTCATTGTGGGCGTGTGGGTGGCTGCCCTGGGC
-----+-----+-----+-----+-----+-----+-----+
481 GCGGACGGGGCACC GGCGCACCACTACGAGTAACACCCGCACACCCACCGACGGGACCCG
-----+-----+-----+-----+-----+-----+-----+
    CTGGGGCTGCTGCCTGCCCCTCCTGGCACTGCCTCTGTGCCCTGGACCGCTGCTCACGC
-----+-----+-----+-----+-----+-----+-----+
541 GACCCCGACGACGGACGGGTGAGGACCGTGACGGAGACACGGGACCTGGCGACGAGTGCG
-----+-----+-----+-----+-----+-----+-----+
    ATGGCACCCTGCTCAGCCGCTCCTATTTGGCCGTCTGGGCTCTGTGAGCCTGCTTGTC
-----+-----+-----+-----+-----+-----+-----+
601 TACCGTGGGGACGAGTCGGCGAGGATAAACCGGCAGACCCGAGACAGCTCGGACGAACAG
-----+-----+-----+-----+-----+-----+-----+
    TTCCTGCTCATGGTGGCTGTGTACACCCGCATTTTCTTCTACGTGCGGCGGCGAGTGACG
-----+-----+-----+-----+-----+-----+-----+
661 AAGGACGAGTACCACCGACACATGTGGGCGTAAAAGAAGATGCACGCCGCCGCTCACGTC
-----+-----+-----+-----+-----+-----+-----+
    CGCATGGCAGAGCATGTCAGCTGCCACCCCGCTACCGAGAGACCACGCTCAGCCTGGTC
-----+-----+-----+-----+-----+-----+-----+
721 GCGTACCGTCTCGTACAGTCGACGGTGGGGCGATGGCTCTCTGGTGGAGTCGGACCAG
-----+-----+-----+-----+-----+-----+-----+
    AAGACTGTTGTCATCATCCTGGGGGCGTTTCGTGGTCTGCTGGACACCAGGCCAGGTGGTA
-----+-----+-----+-----+-----+-----+-----+
781 TTCTGACAACAGTAGTAGGACCCCCGCAAGCACCAGACGACCTGTGGTCCGGTCCACCAT
-----+-----+-----+-----+-----+-----+-----+
    CTGCTCCTGGATGGTTTAGGCTGTGAGTCCTGCAATGTCTGGCTGTAGAAAAGTACTTC
-----+-----+-----+-----+-----+-----+-----+
    GACGAGGACCTACCAAATCCGACACTCAGGACGTTACAGGACCGACATCTTTTCATGAAG
-----+-----+-----+-----+-----+-----+-----+

```



841 CTACTGcTGGCCGAGGCCAACTCACTGGTCAATGCTGCTGTGTACTCTTGCCGAGATGCT  
-----+-----+-----+-----+-----+-----+  
GATGACgACCGGCTCCGGTTGAGTGACCAGTTACGACGACACATGAGAACGGCTCTACGA 900  
901 GAGATGCGCCGCACCTTCCGCCGCCCTTCTCTGCTGCGCGTGCCTCCGCCAGTCCACCCGC  
-----+-----+-----+-----+-----+-----+  
CTCTACGCGGCGTGGAAGGCGGCGGAAGAGACGACGCGCACGGAGGCGGTGAGGTGGGCG 960  
961 GAGTCTGTCCACTATACATCCTCTGCCCAGGGAGGTGCCAGCACTCGCATCATGCTTCCC  
-----+-----+-----+-----+-----+-----+  
CTCAGACAGGTGATATGTAGGAGACGGGTCCCTCCACGGTCGTGAGCGTAGTACGAAGGG 1020  
1021 GAGAACGGCCACCCACTGATGGACTCCACCCTTTAG  
-----+-----+-----+-----+-----+-----+  
CTCTTGCCGGTGGGTGACTACCTGAGGTGGGAAATC 1056

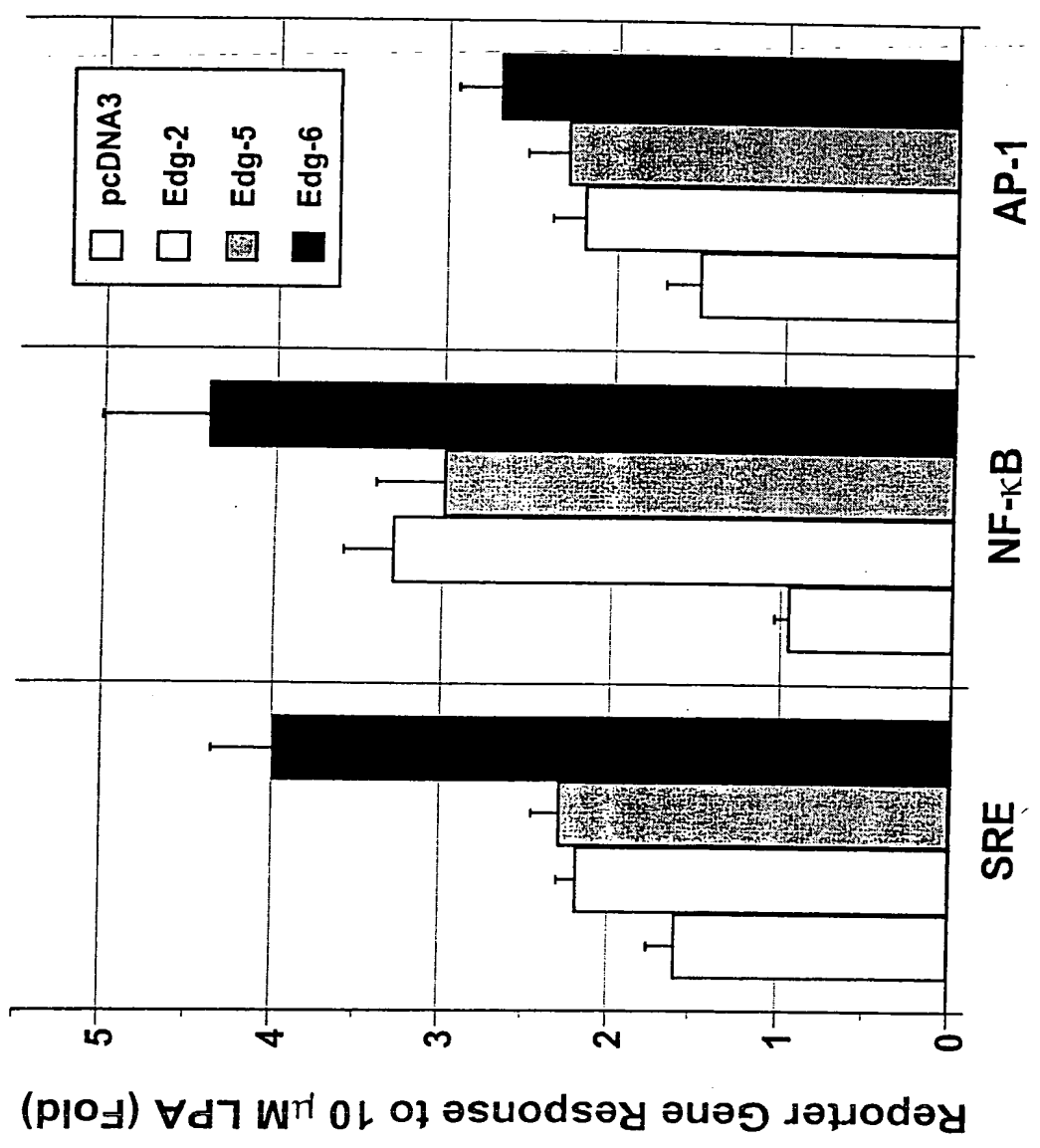


Figure 23.

Figure 24.

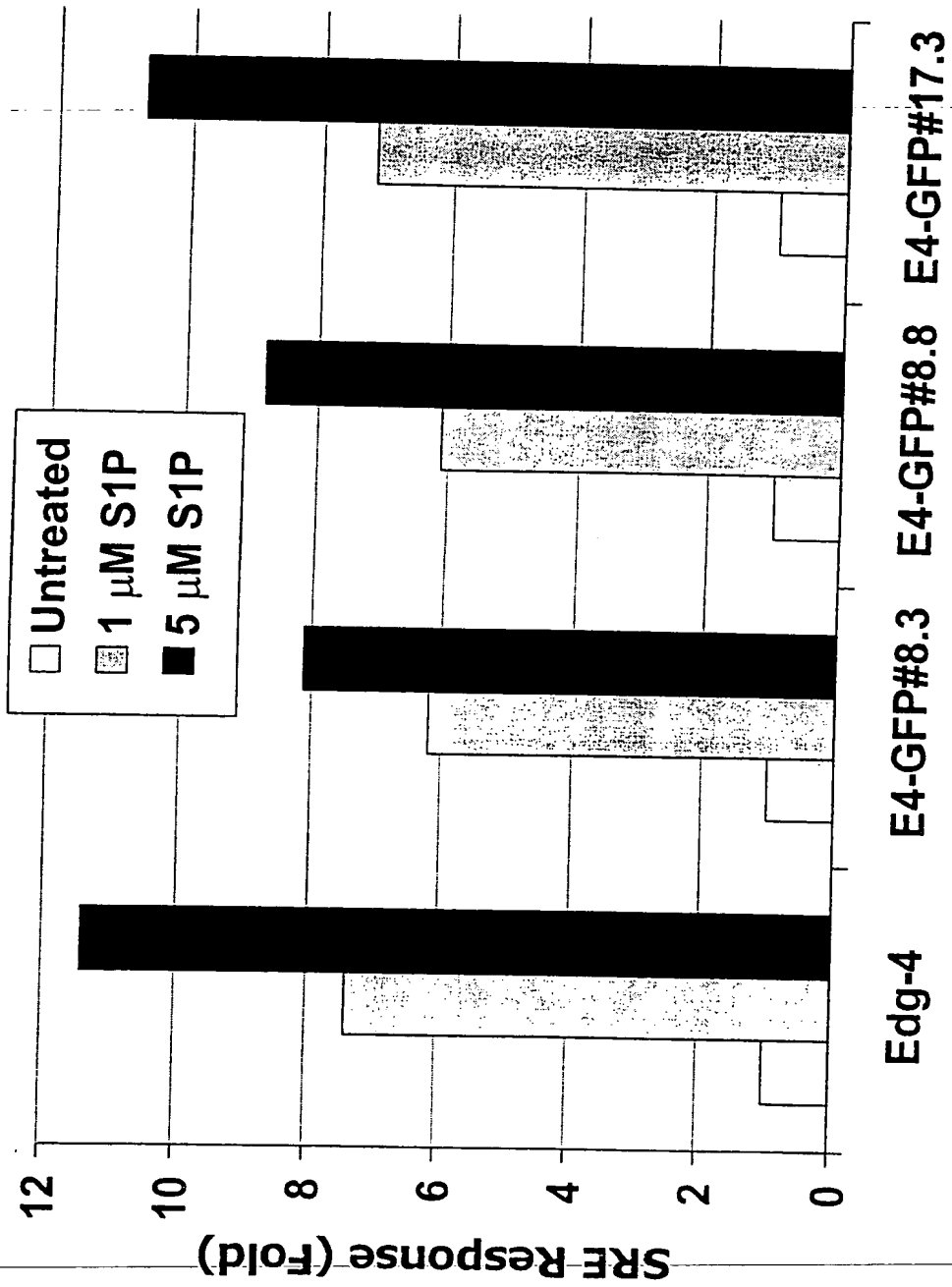


Figure 25.

